

[54] **DEVICE AND PROCESS FOR SPINNING OR TWISTING AND WINDING YARN**[76] Inventor: **Jacobo G. Maria**, 93 Ave. Norte
#630, San Salvador, El Salvador[21] Appl. No.: **218,252**[22] Filed: **Dec. 19, 1980****Related U.S. Application Data**[63] Continuation-in-part of Ser. No. 162,049, Jun. 17, 1980,
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D01H 7/44; D01H 7/90[52] U.S. Cl. **242/159; 57/67;**
57/71; 57/75; 57/115; 57/117[58] Field of Search **57/67-71,**
57/75, 126, 115, 117; 242/159[56] **References Cited****U.S. PATENT DOCUMENTS**

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[57]

ABSTRACT

A process and an improved device for spinning or twisting and winding yarn is disclosed which is for use with a yarn spinning or twister device which conventionally includes a traveler assembly of a type used in textile mills. The device includes a driven rotor disposed axially through the twister device such as the twister ring and traveler assembly with a twisted yarn extending downwardly from the traveler, through a first radially facing hole in the rotor, and a second axially facing hole through an up-down reciprocating carrier bar supporting a depending rotatable free spinning yarn guide frame, designed to guide the yarn outwardly and downwardly and into a convolutely wound engagement along the length of a bobbin engaged on a driven spindle driven, and including a brake to arrest rotational movement of the yarn guide frame when the winding operation is discontinued. Preferably, the rotor or artificial bobbin is driven at the same revolutions per minute as the spindle.

30 Claims, 4 Drawing Figures